

Amendments to the Claims:

The following listing of the claims replaces and supersedes all previous listings.

1. (Currently Amended) An electronically reconfigurable battery, comprising:
a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;

a series current limiting device, network or system inserted in circuit with the partially or ~~sequential~~ sequentially erected connected battery modules so as to limit DC current;

wherein said ~~charge~~ series current limiting device comprises a single stage converter (SSC), having an input and an output, whose output voltage is limited to approximately the battery module voltage level,

wherein a bypass switch ~~issued~~ is used to connect the input to the output of the SSC circuit to directly connect ~~the~~ a dynamic store portion of the battery with ~~the~~ a static portion of the battery.

2-27 (cancelled)

28. (Currently Amended) An electronically reconfigurable battery, comprising:
a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;
and

a series current limiting device, network or system inserted in circuit with the partially or ~~sequential~~ sequentially ~~erected~~ connected battery modules so as to limit DC current;

wherein said ~~charge~~ series current limiting device comprises a single stage converter (SSC) whose output voltage is limited to approximately the battery module voltage level,

wherein the SSC is an electronic DC-DC converter whose input circuit is connected to ~~the~~ a static portion of the battery and whose output is connected to ~~the~~ a first stage of ~~the~~ a dynamic section of the battery.

29. (Currently Amended) An electronically reconfigurable battery, comprising:

a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;

and

a series current limiting device, network or system inserted in circuit with the partially or ~~sequential~~ sequentially connected ~~erected~~ battery modules so as to limit DC current;

wherein said ~~charge~~ series current limiting device comprises a single stage converter (SSC) whose output voltage is limited to approximately the battery module voltage level,

wherein the SSC is an electronic DC-DC converter whose input circuit is connected to a suitable DC source other than ~~the~~ a static portion of the battery and ~~the~~ whose output is connected to ~~the~~ a first stage of ~~the~~ a dynamic section of the battery.

30. (Cancelled)

31. (Currently Amended) An electronically reconfigurable battery, comprising:

a first plurality of battery modules;

a plurality of switches selectively interconnecting said plurality of battery modules, wherein a selectable number of said plurality of battery modules may be connected either in a series configuration or in a parallel configuration, as a result of placing selected switches of said plurality of switches in open states or closed states;

an output switch connecting a first output terminal of said battery to a first load;

and

a series current limiting device, network or system inserted in circuit with the ~~partially or sequential~~ sequentially connected ~~erected~~ battery modules so as to limit DC current;

wherein said ~~charge~~ series current limiting device comprises a single stage converter (SSC) whose output voltage is limited to approximately the battery module voltage level,

wherein the SSC is an electronic AC-DC converter whose input circuit is connected to a suitable AC source and whose output is connected to ~~the~~ a first stage of ~~the~~ a dynamic section of the battery.

32. (Cancelled)